Abstract

Mobile Ad Hoc Network (MANET) is a collection of mobile nodes communicating with each other without any infrastructure in a multi hop fashion. In a MANET, nodes are moving arbitrarily, so the network may experience rapid and randomly topology changes. This paper presents performance comparison of three dissimilar routing protocols i.e. Fisheye State Routing (FSR), Location aided Routing (LAR) and Zone Routing Protocol (ZRP) with respect to variable pause times. This research paper provides an outline of these protocols by presenting their functionality, benefits, characteristics, limitations and analysis. Performance of FSR, LAR and ZRP is evaluated considering the parameters average end-to-end delay, packet delivery ratio and throughput using network simulator Qualnet 5.0.2. The simulation shows that LAR protocol exhibits good performance in comparison to other routing protocols.

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**Index Terms**

Computer Science

Wireless
Keywords
Fsr Manet Lsr Zrp